

**AMENDMENTS TO THE CLAIMS**

Claims 1-46. (canceled).

47. (new) A method of forming an imager pixel array comprising the steps of:  
  
forming a plurality of photosensors; and

forming a plurality of charge storage capacitors, each for receiving collected charges from an associated respective one of said plurality of photosensors, a storage capacity of each said charge storage capacitor corresponding to electron production capability of an associated respective photosensor.

48. (new) A method according to claim 47, wherein a portion of said plurality of photosensors is responsive to red colored light, and said charge storage capacitor associated with each said photosensor of said portion is formed with a storage capacity of between about 0 and about 20 femtofarads.

49. (new) A method according to claim 47, wherein a portion of said plurality of photosensors is responsive to green color light, and said charge storage capacitor associated with each said photosensor of said portion is formed with a storage capacity of between about 2 and about 20 femtofarads.

50. (new) A method according to claim 47, wherein a portion of said plurality of photosensors is responsive to blue color light, and said charge storage capacitor associated with each said photosensor of said portion is formed with a storage capacity of between about 3 and about 20 femtofarads.

51. (new) A method according to claim 47, wherein each said charge storage capacitor is formed as a flat plate capacitor.

52. (new) A method according to claim 47, further comprising forming a plurality of transfer transistors each in electrical communication with a respective one of said plurality of storage capacitors.

53. (new) A method according to claim 47, wherein the step of forming said plurality of charge storage capacitors comprises establishing electrical communication for receiving collected charges directly from a respective one of said plurality of photosensors.

54. (new) A method according to claim 47, wherein the step of forming said plurality of charge storage capacitors comprises establishing electrical communication for receiving collected charges from a respective one of said plurality of photosensors through a respective floating diffusion region which receives charges from said respective one of said plurality of photosensors.

55. (new) A method of forming an imager pixel array comprising the steps of:  
providing a plurality of photosensors comprising at least a first portion responsive to a first color of light, and a second portion responsive to a second color of light; and

forming a plurality of storage capacitors in electrical communication with a respective one of said photosensors, a storage capacity of each said storage capacitor corresponding with electron production capability of each said respective photosensor, said storage capacity of storage capacitors associated with photosensors of said first portion being different from said storage capacity of storage capacitors associated with photosensors of said second portion.

56. (new) A method as in claim 55, wherein the first color is red, a respective storage capacitor in electrical communication with a photosensor of said first portion of photosensors having a storage capacity of between about 0 and about 20 femtofarads.

57. (new) A method as in claim 55, wherein the second color is green, and a respective storage capacitor in electrical communication with a photosensor of said second portion of photosensors having a storage capacity of between about 2 and about 20 femtofarads.

58. (new) A method as in claim 55, wherein said plurality of photosensors further comprises a third portion responsive to a third color of light, and wherein the step of forming said plurality of storage capacitors comprises forming a storage capacitor in electrical communication with a respective photosensor of said third portion, the storage capacity of said storage capacitor associated with photosensors of said third portion being different from the storage capacity of capacitors associated with photosensors of said first and second portions.

59. (new) A method as in claim 58, wherein said third color of light is blue and a storage capacitor in electrical communication with a photosensor of said third portion has a storage capacity of between about 3 and about 20 femtofarads.